

MODEL
EMC3125U



APPROVALS



 **ENGINEERING CODE**
711JA52

 **APPROVED REFRIGERANT**
R-290

 **POWER SUPPLY**
220-240 V 50 Hz

 **STANDARD CONDITIONS**
ASHRAE

 **APPLICATION**
L/MBP

 **COOLING CAPACITY**
301 W (LBP)

 **EFFICIENCY**
1.85 W/W (LBP)

 **MOTOR TYPE**
RSCR

 **STARTING TORQUE**
LST

DATA

General Data

Type	Hermetic reciprocating
Technology Type	On-Off
Displacement	6.09 cm ³
Compressor Cooling	Fan/NotControlled/220
Fan Air Flow	270 m ³ /h
Expansion Device	Capillary Tube
Horse Power	1/3 hp
Max Condensing Pressure Operating	18.07 bar
Max Condensing Pressure Peak	20.17 bar
Power Supply	220-240 V 50 Hz
Evaporating Temperature Range	-35 °C to 5 °C

Electrical Data

Motor type	RSCR
Starting Torque	LST
Start Winding Resistance	13.5 Ω at 25° C
Run Winding Resistance	13.7 Ω at 25° C

Mechanical Data

Maximum Recommended Refrigerant Charge	150 g
Oil Charge	150 ml
Oil Type Configuration	ESTER
Oil Type Viscosity	ISO10
Pressurization	Light vacuum
Weight	8.17 Kg
Free Internal Volume	1.5 L

Electrical Components

	Description
Run Capacitor	5
Starting Device	PTC MI2021 V230
Motor Protection	AE15BU

External Characteristics

Base Plate		European	
Tray Holder		No	
Height		171 mm	
Connector	Internal Diameter		Shape
Suction	6.1 mm	Slanted 42° up + 45° to Back/Copper	
Discharge	4.94 mm	Straight/Copper	
Process	6.1 mm	Slanted 46°/Copper	

PERFORMANCE

Rated Points

Condensing Temperature	Evaporating Temperature	Cooling Capacity	Power Consumption	Current	Gas Flow Rate	Efficiency
54.40°C	-23.30°C	302 W	163 W	0.77 A	3.07 kg/h	1.85 W/W

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Evaporation -23.30°C, Condensing 54.40°C, Ambient 32.2°C , Liquid 32.2°C, Subcooling 22.2K. Data in accordance to EN

12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Performance Curve Data

Condensing Temperature 35°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	198	111	0.53	2.00	1.78
-30	251	126	0.59	2.54	2
-25	316	139	0.65	3.21	2.27
-20	394	152	0.71	4.01	2.6
-15	484	163	0.76	4.94	2.97
-10	587	173	0.81	6.03	3.39
-5	705	182	0.86	7.27	3.87
0	836	190	0.9	8.68	4.4
5	983	197	0.94	10.27	4.99

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 45°C

Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-35	186	116	0.55	1.88	1.61
-30	237	132	0.63	2.40	1.79
-25	299	149	0.7	3.03	2.01
-20	374	164	0.77	3.80	2.27
-15	461	180	0.84	4.71	2.56
-10	562	195	0.91	5.76	2.88
-5	676	209	0.97	6.97	3.23
0	804	223	1.03	8.35	3.61
5	947	236	1.09	9.90	4.02

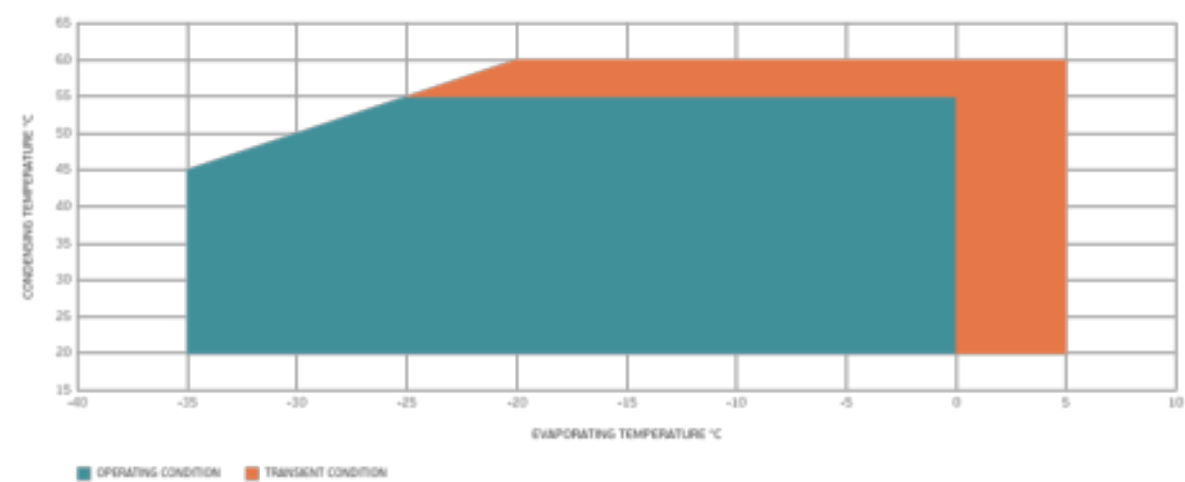
Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

Condensing Temperature 55°C

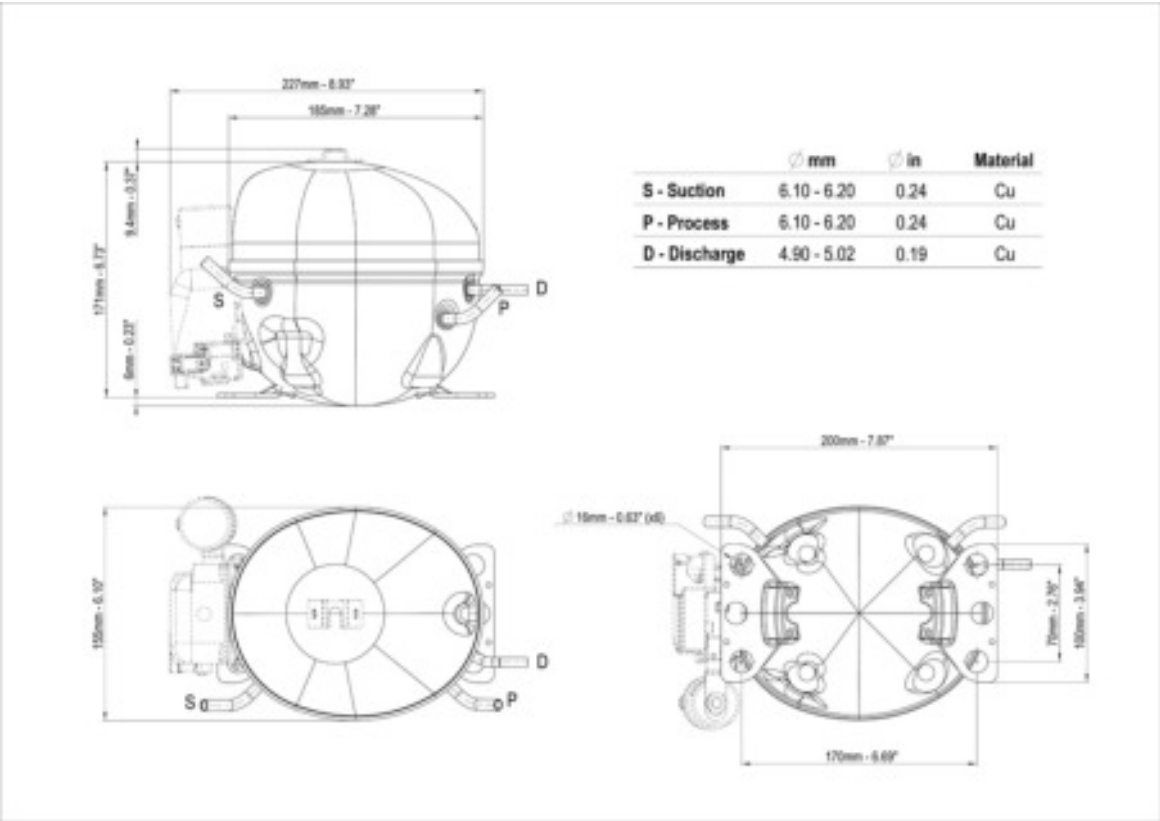
Evaporating Temperature °C	Cooling Capacity W	Power W	Current A	Gas Flow Rate kg/h	Efficiency W/W
-25	278	156	0.74	2.82	1.78
-20	350	175	0.83	3.56	2
-15	433	194	0.92	4.43	2.24
-10	530	212	1.01	5.44	2.5
-5	641	231	1.09	6.61	2.77
0	766	250	1.17	7.95	3.07
5	906	268	1.25	9.46	3.37

Test Condition: ASHRAELBP32, Fan/NotControlled/220, Return Gas 32.2°C, Ambient 32.2°C , Liquid 32.2°C. Data in accordance to EN 12900:2013 and AHRI 540:2015 polynomial equation and uncertainty guidance.

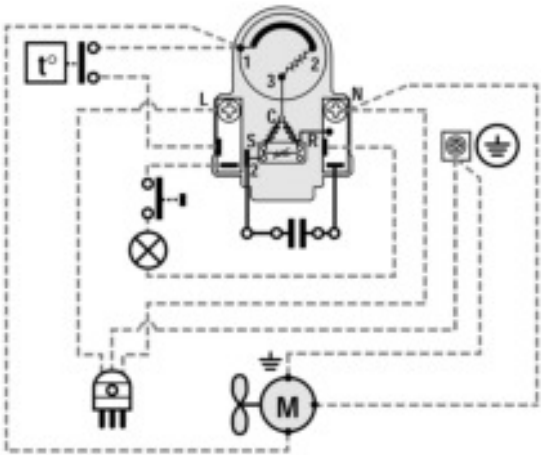
Operating Envelope



External Dimensions



Wiring Diagram



Assembly Instructions

